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Terms used

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997

**Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborat**

**Publisher:** IBM Press

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. Help the user with the desired overview of the application. In our experience, such tools display repeated occurrences of r

2 [Special section: Reasoning about structure, behavior and function](#)

B. Chandrasekaran, Rob Milne

July 1985

**ACM SIGART Bulletin**, Issue 93

**Publisher:** ACM Press

Full text available: [pdf\(5.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the area, also about their limitations and the need for research both in a broader framework as well as in new directions. 7

3 [Frontmatter \(TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements engineering product lines: from business to systems and technology, Software engineering survey\)](#)

September 2005

**ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

**Publisher:** ACM Press

Full text available: [pdf\(1.98 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

4 [Frontmatter \(TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and Research, ICSE 2005 Forward\)](#)

July 2005

**ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(6.19 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

5 [Distributed systems - programming and management: On remote procedure call](#)

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181 Devirtualizable virtual machines enabling general, single-node, online maintenance

October 2004

**ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review**  
**conference on Architectural support for programming languages and operating systems**

Full text available:  pdf(174.01 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [citi](#)


Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanisms have prevented its broad acceptance. First, cluster-style maintenance over many nodes is typically impractical. Second, cluster-style maintenance does not work on single-node systems, despite the fact that

**Keywords:** availability, online maintenance, planned downtime, virtual machines

**182 The costs and limits of availability for replicated services**

February 2006

ACM Transactions on Computer Systems (TOCS), Volume 24 Issue 1

Full text available:  pdf(718.65 KB)

**Additional Information:** full citation, abstract, references, ind

As raw system performance continues to improve at exponential rates, the utility of many services is increasing. Improving availability involves replicating the service across multiple, wide-area sites. However, replication introduces consistency challenges. Thus, this article explores the benefits of dynamically trading consistency for availability using a *continuous consistency* model.

**Keywords:** Availability, continuous consistency, network services, replication, trade-off, upper bound

**183** VigilNet: An integrated sensor network system for energy-efficient surveillance

Tian He, Sudha Krishnamurthy, Liqian Luo, Ting Yan, Lin Gu, Radu Stoleru, Gang Zhou, Qing Cao, Pascal Vicaire, Jc  
February 2006 **ACM Transactions on Sensor Networks (TOSN)**, Volume 2 Issue 1

ACM Transactions on Sensor Networks (TOSN), Volume 2 Issue 1

Full text available:  pdf(2.55 MB)

Additional Information: full citation, abstract, references, ind

This article describes one of the major efforts in the sensor network community to build an integrated sensor network that can acquire and verify information about enemy capabilities and positions of hostile targets. Such missions often involve a high degree of stealthiness. Hence, the ability to deploy unmanned surveillance missions, by using wireless sensor networks, is a critical capability for the future of the U.S. military.

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